

REMARKS

Claims Status

Claims 1-8 are currently pending, with claims 1 and 8 being in independent form. Claims 1-8 have been amended. The amendments to claims 2-7 are merely cosmetic or clarifying in nature. Additional support for the amendments to independent claims 1 and 8 may be found, for example, at pg. 2, lines 32-34, pg. 3, lines 26-30 and at pg. 8, lines 32-37 of the specification as originally filed. No new matter has been added. Reconsideration of the application, as herein amended, is respectfully requested.

Priority Documents

The Examiner (in the *Office Action Summary*) has indicated that only “some” of the certified documents have been received. However, the Examiner provides no indication of which specific document was not received. Applicant requests that the Examiner indicate which document was not received so that applicant is afforded the opportunity to appropriately respond.

Overview of the Office Action

Claims 1-8 stand rejected under 35 U.S.C. §103(a) as unpatentable over U.S. Patent No. 6,249,836 (“*Downs*”) in view of U.S. Pub. No. 2004/0062262 (“*Venteicher*”).

Applicant has carefully considered the Examiner’s rejections, and the comments provided in support thereof. For the following reasons, applicant respectfully asserts that all claims now pending in the present application are patentable over the cited art.

Descriptive Summary of the Prior Art

Downs discloses “a method and apparatus for providing remote, distributed processing of a task by employing the Internet” (see col. 2, lines 6-7).

Venteicher discloses “a method for managing the usage of data link resources, which communicatively couple a wireless communication device and a wireless network, and are used by one or more applications that operate in association with the wireless communication device” (see paragraph [0008], lines 1-6).

Summary of the Subject Matter Disclosed in the Specification

The following descriptive details are based on the specification. They are provided only for the convenience of the Examiner as part of the discussion presented herein, and are not intended to argue limitations which are unclaimed.

The specification discloses a system and a method for managing a resource in a multi-access point name (APN) terminal for a plurality of architectures, each of which is dedicated to one particular corresponding communications network from among a plurality of communication networks. The system and method eliminate the drawbacks of existing systems by managing each dedicated architecture of the single multi-APN terminal.

The system comprises a plurality of dedicated architecture resource managers that are each configured to process, on behalf of that architecture, a request that is defined by a process manager of the each architecture for access to a common resource of the multi-APN terminal, where the request is generated as a function of an application that is activated on the multi-APN terminal. The system is further configured to dialogue with a resource administrator of the dedicated architecture managers to manage the common resource of the multi-APN terminal

based on simultaneous, operational processing of the plurality of dedicated architectures of the multi-APN terminal which are each connected to its corresponding communications network.

Each of the architectures in the single multi-APN terminal is thus connected to and communicates with only one particular corresponding communications network, i.e., the communications network associated with a corresponding PDP context link, even if the multi-APN terminal is connected to the plurality of communications networks.

Patentability of the Independent Claims Under 35 U.S.C. §103(a)

Independent claim 1 has been amended to clarify the salient features of the disclosed invention. That is, independent claim 1 has been amended to now recite, *inter alia*, “said system comprises a plurality of dedicated architecture resource managers each configured to process, on behalf of the each architecture, a request defined by a process manager of the each architecture for access to a common resource of the multi-APN terminal, the request being generated as a function of an application activated on said multi-APN terminal, and wherein said each architecture resource manager is configured to dialogue with a resource administrator of a dedicated architecture manager of the multi-APN terminal to manage the common resource of said multi-APN terminal based on simultaneous operational processing of said plural dedicated architectures of said multi-APN terminal which are each connected to the corresponding one of said plural communications networks”. Independent claim 8 has been amended to recite, *inter alia*, the step of “generating the response, at a resource administrator of a dedicated architecture manager of the multi-APN terminal, after checking said common resource access request against simultaneous common resource access requests from others of the plural dedicated architectures of the multi-APN terminal”. No new matter has been added.

The Examiner (at pg. 3 of the Office Action) has acknowledged that *Downs* fails to teach or suggest that the “resource manager processes simultaneously the operation of said dedicated architectures of said terminal that are connected to a plurality of said communications networks” as heretofore recited in independent claim 1, and the step of “activating an application on said terminal and a radio interface for access to said communications network allocating a resource” as heretofore recited in independent claim 8, and cites *Venteicher* for these features.

Applicant disagrees, however, that any combination of *Downs* and *Venteicher* achieves the subject matter of independent claim 1. *Venteicher* fails to teach or suggest “said each architecture resource manager is configured to dialogue with a resource administrator of a dedicated architecture manager of the multi-APN terminal to manage the common resource of said multi-APN terminal based on simultaneous operational processing of said plural dedicated architectures of said multi-APN terminal which are each connected to the corresponding one of said plural communications networks” as recited in now-amended independent claim 1, and the corresponding generating step as recited in now-amended independent claim 8.

Venteicher (see paragraph [0008], lines 1-6) discloses a “method for managing the usage of data link resources, which communicatively couple a wireless communication device and a wireless network, and are used by one or more applications that operate in association with the wireless communication device”.

Venteicher (paragraph [0033], lines 1-4) explains that “[t]he one or more internal applications 22, that are operating internal to the wireless communication device, could include a browser application, such as a web browser or a WAP browser”. Such a web browser application is not the architecture recited in amended independent claims 1 and 8. The skilled person would readily appreciate that web browser applications are executed on or within specific

processing environments, i.e., within an architecture environment; they themselves do not constitute or correspond to the claimed “architecture”.

Venteicher (paragraph [0033], lines 1-4) further explains that “[t]he internal applications 22 could additionally and/or alternatively include multimedia services including audio or video streaming, mail messages, instant messages, push messages, java based applications, GPS data, and/or synchronization data”. The internal applications described in *Venteicher* are specific messages that are distributed over a specific architecture. That is, *Venteicher* teaches that messages and GPS data are transmitted over a specific architecture. This, too, is information that is transmitted over a specific network or architecture and, thus, the data described in *Venteicher* does not constitute the claimed “architecture”.

Venteicher (paragraph [0034], lines 1-6) explains that “[a]s each of the internal applications 22, and/or associated external devices 16 generate requests for data link resources, the data link resource manager 20 can attempt to accommodate the request for data link resources by sharing an already established data link, or the data link resource manager can attempt to establish a new data link connection”. *Venteicher* therefore describes the generation of requests for resources associated with data links.

These different types of data links are described in paragraph [0035] of *Venteicher*, which explains that “at least four types of data links are available, including background, interactive, streaming or conversational type data links”. *Venteicher* (paragraph [0035], lines 3-16) further explains that “a conversational type data link corresponds to a traditional voice switched circuit”, that such a data link “is often one of the more expensive data link connections, cost wise” and that “a conversational type data link is often the least desirable type of data link connection, and is sometimes treated as a last resort option”. *Venteicher* thus teaches that the resources are

managed to reduce the costs associated with connections to a single network. However, *Venteicher* fails to teach or suggest that costs are or might be managed between a plurality of communications networks, which would be required to achieve the express recitations and functionality of independent claim 1 and the associated steps of independent claim 8.

It is simply not possible for the multiple dedicated architectures of the single multi-APN terminal of independent claims 1 and 8 to simultaneously share a requested common resource in the manner described in *Venteicher*. Consequently, the skilled person would not consider or seek to modify the teachings of *Venteicher* to achieve the multi-APN terminal of independent claims 1 and 8 because there is no sharing of data link resources. Rather, the claimed invention is directed to specifically managing a common resource in a single multi-APN terminal when the terminal is connected through multiple architectures to multiple corresponding communications networks. Here, the management of resources must account for the dedicated architecture manager (13) that is used to manage each of the dedicated architectures (15, 15').

As explained at pg. 11, lines 11-15 of applicants' specification as originally filed, “[m]anagement by the dedicated architecture manager 13 of the various dedicated architectures 15, 15' each associated with a different communications network enables operation of the terminal 10 as a ‘multi-APN’ terminal”. The claimed invention is thus directed to enabling the functionality of a single multi-APN terminal when it is connected to a plurality of communications networks. *Venteicher* in combination with *Downs* fails to achieve such a terminal.

As additionally explained at pg. 2, line 24 to pg. 3, line 6 of the instant specification, the dedicated architecture manager in the single multi-APN terminal assigns each dedicated architecture to a corresponding communications network. “The autonomy and independent

operation of the dedicated architectures of the terminal guarantee mutual confidentiality and security between the communications networks by providing a ‘seal’ between the various services connected to the terminal.... To maintain the independence of the various communications networks effectively, and because of the autonomy of the various dedicated architectures of a terminal, each dedicated architecture has no view of the operation of the other dedicated architectures of the terminal” (see, e.g., pg. 2, line 17 to pg. 3, line 13 of the specification). A key aspect of the claimed invention is based on the premise that each dedicated architecture within the single multi-APN terminal is provided with no view of the operation of the other dedicated architectures within the same terminal to thereby maintain the independence of the plurality of communications networks. The sharing of datalink resources would compromise the “seal” guaranteed by the autonomous and independent operation of the dedicated architectures of the terminal such that the desired mutual confidentiality and security between the communications networks would be lost.

In contrast, *Venteicher* teaches a system and method in which requests for resources associated with data links are shared among multiple devices operating in the same network. There is simply no teaching or suggestion within *Venteicher* of a plurality of dedicated architecture resource managers that are each configured to dialogue with a resource administrator of a dedicated architecture manager to manage common resources in a single multi-APN terminal based on simultaneous, operational processing of the multiple dedicated architectures of the single multi-APN terminal that are each connected to a corresponding one of the plurality of communications networks, as recited in now-amended independent claim 1. There is also no teaching or suggestion in *Venteicher* with respect to the step of “generating the response, at a resource administrator of a dedicated architecture manager of the multi-APN terminal, after

checking said common resource access request against simultaneous common resource access requests from others of the plural dedicated architectures of the multi-APN terminal”, as recited in now-amended independent method claim 8.

The resource administrator of the plural dedicated architecture resource managers that each manage the resources allocated to a respective one of the plural dedicated architectures (15, 15') is described at pg. 11, line 16 to pg. 13, line 5 of the specification as originally filed. This resource administrator dialogs with the plural dedicated architecture resource managers to advantageously manage access to a common resource in a single multi-APN terminal based on simultaneous operational processing of the plural dedicated architectures of the single multi-APN terminal. *Venteicher* fails to teach or suggest this claimed feature.

The devices of *Venteicher* are controlled in association with a single communications network. There is no attempt in the *Venteicher* system to ensure that the devices do not communicate with each other in this single network to thereby maintain a high level of security. The combination of *Downs* and *Venteicher* thus fails to teach or suggest applicant’s claimed invention.

By virtue of the above-discussed differences between the recitations of independent claims 1 and 8 and the teachings of *Downs* in combination with *Venteicher*, and the lack of any clear motivation for modifying the reference teachings to achieve applicant’s claimed invention, independent claims 1 and 8 are deemed to be patentable over the combination of *Downs* and *Venteicher* under 35 U.S.C. §103.

Dependent Claims

In view of the patentability of independent claims 1 and 8 for the reasons presented above, each of dependent claims 2-7 is respectfully deemed to be patentable therewith over the prior art. Moreover, each of these dependent claims includes features which serve to still further distinguish the claimed invention over the applied art.

Conclusion

Based on all of the above, applicants submit that the present application is now in full and proper condition for allowance. Prompt and favorable action to this effect, and early passage of the application to issue, are once more solicited.

Should the Examiner have any comments, questions, suggestions or objections, the Examiner is respectfully requested to telephone the undersigned to facilitate an early resolution of any outstanding issues.

It is believed that no fees or charges are required at this time in connection with the present application. However, if any fees or charges are required at this time, they may be charged to our Patent and Trademark Office Deposit Account No. 03-2412.

Respectfully submitted,
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